

## ABSTRACT

1           A device for expressing milk from one or more breasts has  
2           at least one, and preferably two expressors and a pump. The expressors  
3           each have a cup for fitting on the breasts and a cup outlet to which a  
4           vacuum created by the pump can be connected. In use, the vacuum  
5           expresses the milk from the breast. The device has a vacuum adjustment  
6           and a vacuum release on each expressor. In this manner, the vacuum can  
7           be individually adjusted and released at the expressors. The pump includes  
8           a movable diaphragm in a chamber. The diaphragm is oscillated back and  
9           forth by a linear actuator motor such as a stepper motor. The motor has a  
10          shaft which moves back and forth axially, for direct linkage to the  
11          diaphragm, so that the size and weight of the pump are reduced. The  
12          expressors have a removable cap and removable cup assembly, and the cup  
13          assembly has a positively sealed liner, for easy disassembly and cleaning.